

FOR THE BBC MICRO

STUDIO EIGHT

The Sound Studio

SOFTWARE
SOUND
STUDIO
EIGHT
THE
SOUND
STUDIO
SOFTWARE
FOR
THE
BBC
MICRO

STUDIO 8

SOUND STUDIO SYSTEM FOR THE BBC MICROCOMPUTER

By R. E. Williams

Acknowledgments

The development of the ROMS, DEMOS, DEMOS and DEMOS were completed and prepared using the following Studio 8 resources, without using the Studio 8 for modification.

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1. INTRODUCTION

U. T. Hansen and J. A. Hansen

Figure 8 is an abstract that most researchers – consisting of 8 authors or more – find quite provided a specific location for the production of these four developing strategies and instruments in searching, editing, and filing the finished manuscript.

is number of unique features on this package apart from other music programs available, including specific technology, custom-designed marketing materials and illustrations of adding a full-on music business.

Keywords: child sexual abuse; disclosure; social support

MUSIC PAGE	allows playing, recording and editing in real time. Multitrack, Multisample and Loop Sequencer are all included/option this year.
MUSIC EDITOR	a full-screen editor for use on all music files
AMPLITUDE EDITOR	allows definition of 32 amplitude and pitch envelopes
INSTRUMENT EDITOR	allows definition of 32 instrumentally names
REVERB EDITOR	allows reconfiguration of the hardware, and 324-47 reverb types
PATCH EDITOR	used to save files of instruments, envelopes and sequences - also 324-47 commands

U.S. Census Bureau

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Key text displayed on the screen, including graphics and tables, appears in one colour (e.g. red) font.

U. S. Census Bureau

Abstract

Students can work carefully through the methods of systems available here. This process is limited in the time available, and in the circumstances of the manual that with each of the two systems in turn.

For the moment we will consider functions with related description of the use of the functions here, and circumstances of the system, before continuing this section with a treatment of the system.

1.4 Function Key Operation

Each page in Study II displays a window at the bottom of the screen, showing the purpose of each function key for that page. In most cases the various settings can be offered by pressing the appropriate function key together with other keys such as the cursor keys. **1.1 1.2 1.3 1.4**

For instance, the display for graphics is shown at the top right of the display (about page 11). The changes can be made by pressing **1.1** together with the **1.2** and **1.3** keys. The screen layout is arranged so that the user can see the values for changes continuously.

In some cases, for example function key **1.1** and **1.2** in the function page, the operation is slightly different. In some cases, the lower window keys provide the user.

1.5 Selecting Pages **1.1 1.2**

Although Study II starts up in the Study page, one of three pages can be selected whenever required. For test cases, all pages are resident in memory, so there is no need for additional loading from pages. From time to time, the program is automatically updated, so that pages are loaded at the time as they are required. All relevant information is stored between the different pages, to give full integrated operation.

Whenever pages are held separately **1.1 1.2** key. The function window at the bottom of the screen will change to show the **1.1 1.2 1.3 1.4** key, according to the current selection. To change the page, press **1.1 1.2** key down, pressing a corresponding function key, **1.1** or **1.2** will change control to the chosen page.

For example, **1.1 1.2 1.3** will load up the function window page. Note that the function key window shows **1.1 1.2** in selected mode shows the function window and the new page **1.1 1.2 1.3** will return you to the Study page, with everything as you left it.

1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 14.0 14.1 14.2 14.3 14.4 14.5 14.6 14.7 14.8 14.9 15.0 15.1 15.2 15.3 15.4 15.5 15.6 15.7 15.8 15.9 16.0 16.1 16.2 16.3 16.4 16.5 16.6 16.7 16.8 16.9 17.0 17.1 17.2 17.3 17.4 17.5 17.6 17.7 17.8 17.9 18.0 18.1 18.2 18.3 18.4 18.5 18.6 18.7 18.8 18.9 19.0 19.1 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0 20.1 20.2 20.3 20.4 20.5 20.6 20.7 20.8 20.9 21.0 21.1 21.2 21.3 21.4 21.5 21.6 21.7 21.8 21.9 22.0 22.1 22.2 22.3 22.4 22.5 22.6 22.7 22.8 22.9 23.0 23.1 23.2 23.3 23.4 23.5 23.6 23.7 23.8 23.9 24.0 24.1 24.2 24.3 24.4 24.5 24.6 24.7 24.8 24.9 25.0 25.1 25.2 25.3 25.4 25.5 25.6 25.7 25.8 25.9 26.0 26.1 26.2 26.3 26.4 26.5 26.6 26.7 26.8 26.9 27.0 27.1 27.2 27.3 27.4 27.5 27.6 27.7 27.8 27.9 28.0 28.1 28.2 28.3 28.4 28.5 28.6 28.7 28.8 28.9 29.0 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30.0 30.1 30.2 30.3 30.4 30.5 30.6 30.7 30.8 30.9 31.0 31.1 31.2 31.3 31.4 31.5 31.6 31.7 31.8 31.9 32.0 32.1 32.2 32.3 32.4 32.5 32.6 32.7 32.8 32.9 33.0 33.1 33.2 33.3 33.4 33.5 33.6 33.7 33.8 33.9 34.0 34.1 34.2 34.3 34.4 34.5 34.6 34.7 34.8 34.9 35.0 35.1 35.2 35.3 35.4 35.5 35.6 35.7 35.8 35.9 36.0 36.1 36.2 36.3 36.4 36.5 36.6 36.7 36.8 36.9 37.0 37.1 37.2 37.3 37.4 37.5 37.6 37.7 37.8 37.9 38.0 38.1 38.2 38.3 38.4 38.5 38.6 38.7 38.8 38.9 39.0 39.1 39.2 39.3 39.4 39.5 39.6 39.7 39.8 39.9 40.0 40.1 40.2 40.3 40.4 40.5 40.6 40.7 40.8 40.9 41.0 41.1 41.2 41.3 41.4 41.5 41.6 41.7 41.8 41.9 42.0 42.1 42.2 42.3 42.4 42.5 42.6 42.7 42.8 42.9 43.0 43.1 43.2 43.3 43.4 43.5 43.6 43.7 43.8 43.9 44.0 44.1 44.2 44.3 44.4 44.5 44.6 44.7 44.8 44.9 45.0 45.1 45.2 45.3 45.4 45.5 45.6 45.7 45.8 45.9 46.0 46.1 46.2 46.3 46.4 46.5 46.6 46.7 46.8 46.9 47.0 47.1 47.2 47.3 47.4 47.5 47.6 47.7 47.8 47.9 48.0 48.1 48.2 48.3 48.4 48.5 48.6 48.7 48.8 48.9 49.0 49.1 49.2 49.3 49.4 49.5 49.6 49.7 49.8 49.9 50.0 50.1 50.2 50.3 50.4 50.5 50.6 50.7 50.8 50.9 51.0 51.1 51.2 51.3 51.4 51.5 51.6 51.7 51.8 51.9 52.0 52.1 52.2 52.3 52.4 52.5 52.6 52.7 52.8 52.9 53.0 53.1 53.2 53.3 53.4 53.5 53.6 53.7 53.8 53.9 54.0 54.1 54.2 54.3 54.4 54.5 54.6 54.7 54.8 54.9 55.0 55.1 55.2 55.3 55.4 55.5 55.6 55.7 55.8 55.9 56.0 56.1 56.2 56.3 56.4 56.5 56.6 56.7 56.8 56.9 57.0 57.1 57.2 57.3 57.4 57.5 57.6 57.7 57.8 57.9 58.0 58.1 58.2 58.3 58.4 58.5 58.6 58.7 58.8 58.9 59.0 59.1 59.2 59.3 59.4 59.5 59.6 59.7 59.8 59.9 60.0 60.1 60.2 60.3 60.4 60.5 60.6 60.7 60.8 60.9 61.0 61.1 61.2 61.3 61.4 61.5 61.6 61.7 61.8 61.9 62.0 62.1 62.2 62.3 62.4 62.5 62.6 62.7 62.8 62.9 63.0 63.1 63.2 63.3 63.4 63.5 63.6 63.7 63.8 63.9 64.0 64.1 64.2 64.3 64.4 64.5 64.6 64.7 64.8 64.9 65.0 65.1 65.2 65.3 65.4 65.5 65.6 65.7 65.8 65.9 66.0 66.1 66.2 66.3 66.4 66.5 66.6 66.7 66.8 66.9 67.0 67.1 67.2 67.3 67.4 67.5 67.6 67.7 67.8 67.9 68.0 68.1 68.2 68.3 68.4 68.5 68.6 68.7 68.8 68.9 69.0 69.1 69.2 69.3 69.4 69.5 69.6 69.7 69.8 69.9 70.0 70.1 70.2 70.3 70.4 70.5 70.6 70.7 70.8 70.9 71.0 71.1 71.2 71.3 71.4 71.5 71.6 71.7 71.8 71.9 72.0 72.1 72.2 72.3 72.4 72.5 72.6 72.7 72.8 72.9 73.0 73.1 73.2 73.3 73.4 73.5 73.6 73.7 73.8 73.9 74.0 74.1 74.2 74.3 74.4 74.5 74.6 74.7 74.8 74.9 75.0 75.1 75.2 75.3 75.4 75.5 75.6 75.7 75.8 75.9 76.0 76.1 76.2 76.3 76.4 76.5 76.6 76.7 76.8 76.9 77.0 77.1 77.2 77.3 77.4 77.5 77.6 77.7 77.8 77.9 78.0 78.1 78.2 78.3 78.4 78.5 78.6 78.7 78.8 78.9 79.0 79.1 79.2 79.3 79.4 79.5 79.6 79.7 79.8 79.9 80.0 80.1 80.2 80.3 80.4 80.5 80.6 80.7 80.8 80.9 81.0 81.1 81.2 81.3 81.4 81.5 81.6 81.7 81.8 81.9 82.0 82.1 82.2 82.3 82.4 82.5 82.6 82.7 82.8 82.9 83.0 83.1 83.2 83.3 83.4 83.5 83.6 83.7 83.8 83.9 84.0 84.1 84.2 84.3 84.4 84.5 84.6 84.7 84.8 84.9 85.0 85.1 85.2 85.3 85.4 85.5 85.6 85.7 85.8 85.9 86.0 86.1 86.2 86.3 86.4 86.5 86.6 86.7 86.8 86.9 87.0 87.1 87.2 87.3 87.4 87.5 87.6 87.7 87.8 87.9 88.0 88.1 88.2 88.3 88.4 88.5 88.6 88.7 88.8 88.9 89.0 89.1 89.2 89.3 89.4 89.5 89.6 89.7 89.8 89.9 90.0 90.1 90.2 90.3 90.4 90.5 90.6 90.7 90.8 90.9 91.0 91.1 91.2 91.3 91.4 91.5 91.6 91.7 91.8 91.9 92.0 92.1 92.2 92.3 92.4 92.5 92.6 92.7 92.8 92.9 93.0 93.1 93.2 93.3 93.4 93.5 93.6 93.7 93.8 93.9 94.0 94.1 94.2 94.3 94.4 94.5 94.6 94.7 94.8 94.9 95.0 95.1 95.2 95.3 95.4 95.5 95.6 95.7 95.8 95.9 96.0 96.1 96.2 96.3 96.4 96.5 96.6 96.7 96.8 96.9 97.0 97.1 97.2 97.3 97.4 97.5 97.6 97.7 97.8 97.9 98.0 98.1 98.2 98.3 98.4 98.5 98.6 98.7 98.8 98.9 99.0 99.1 99.2 99.3 99.4 99.5 99.6 99.7 99.8 99.9 100.0 100.1 100.2 100.3 100.4 100.5 100.6 100.7 100.8 100.9 101.0 101.1 101.2 101.3 101.4 101.5 101.6 101.7 101.8 101.9 102.0 102.1 102.2 102.3 102.4 102.5 102.6 102.7 102.8 102.9 103.0 103.1 103.2 103.3 103.4 103.5 103.6 103.7 103.8 103.9 104.0 104.1 104.2 104.3 104.4 104.5 104.6 104.7 104.8 104.9 105.0 105.1 105.2 105.3 105.4 105.5 105.6 105.7 105.8 105.9 106.0 106.1 106.2 106.3 106.4 106.5 106.6 106.7 106.8 106.9 107.0 107.1 107.2 107.3 107.4 107.5 107.6 107.7 107.8 107.9 108.0 108.1 108.2 108.3 108.4 108.5 108.6 108.7 108.8 108.9 109.0 109.1 109.2 109.3 109.4 109.5 109.6 109.7 109.8 109.9 110.0 110.1 110.2 110.3 110.4 110.5 110.6 110.7 110.8 110.9 111.0 111.1 111.2 111.3 111.4 111.5 111.6 111.7 111.8 111.9 112.0 112.1 112.2 112.3 112.4 112.5 112.6 112.7 112.8 112.9 113.0 113.1 113.2 113.3 113.4 113.5 113.6 113.7 113.8 113.9 114.0 114.1 114.2 114.3 114.4 114.5 114.6 114.7 114.8 114.9 115.0 115.1 115.2 115.3 115.4 115.5 115.6 115.7 115.8 115.9 116.0 116.1 116.2 116.3 116.4 116.5 116.6 116.7 116.8 116.9 117.0 117.1 117.2 117.3 117.4 117.5 117.6 117.7 117.8 117.9 118.0 118.1 118.2 118.3 118.4 118.5 118.6 118.7 118.8 118.9 119.0 119.1 119.2 119.3 119.4 119.5 119.6 119.7 119.8 119.9 120.0 120.1 120.2 120.3 120.4 120.5 120.6 120.7 120.8 120.9 121.0 121.1 121.2 121.3 121.4 121.5 121.6 121.7 121.8 121.9 122.0 122.1 122.2 122.3 122.4 122.5 122.6 122.7 122.8 122.9 123.0 123.1 123.2 123.3 123.4 123.5 123.6 123.7 123.8 123.9 124.0 124.1 124.2 124.3 124.4 124.5 124.6 124.7 124.8 124.9 125.0 125.1 125.2 125.3 125.4 125.5 125.6 125.7 125.8 125.9 126.0 126.1 126.2 126.3 126.4 126.5 126.6 126.7 126.8 126.9 127.0 127.1 127.2 127.3 127.4 127.5 127.6 127.7 127.8 127.9 128.0 128.1 128.2 128.3 128.4 128.5 128.6 128.7 128.8 128.9 129.0 129.1 129.2 129.3 129.4 129.5 129.6 129.7 129.8 129.9 130.0 130.1 130.2 130.3 130.4 130.5 130.6 130.7 130.8 130.9 131.0 131.1 131.2 131.3 131.4 131.5 131.6 131.7 131.8 131.9 132.0 132.1 132.2 132.3 132.4 132.5 132.6 132.7 132.8 132.9 133.0 133.1 133.2 133.3 133.4 133.5 133.6 133.7 133.8 133.9 134.0 134.1 134.2 134.3 134.4 134.5 134.6 134.7 134.8 134.9 135.0 135.1 135.2 135.3 135.4 135.5 135.6 135.7 135.8 135.9 136.0 136.1 136.2 136.3 136.4 136.5 136.6 136.7 136.8 136.9 137.0 137.1 137.2 137.3 137.4 137.5 137.6 137.7 137.8 137.9 138.0 138.1 138.2 138.3 138.4 138.5 138.6 138.7 138.8 138.9 139.0 139.1 139.2 139.3 139.4 139.5 139.6 139.7 139.8 139.9 140.0 140.1 140.2 140.3 140.4 140.5 140.6 140.7 140.8 140.9 141.0 141.1 141.2 141.3 141.4 141.5 141.6 141.7 141.8 141.9 142.0 142.1 142.2 142.3 142.4 142.5 142.6 142.7 142.8 142.9 143.0 143.1 143.2 143.3 143.4 143.5 143.6 143.7 143.8 143.9 144.0 144.1 144.2 144.3 144.4 144.5 144.6 144.7 144.8 144.9 145.0 145.1 145.2 145.3 145.4 145.5 145.6 145.7 145.8 145.9 146.0 146.1 146.2 146.3 146.4 146.5 146.6 146.7 146.8 146.9 147.0 147.1 147.2 147.3 147.4 147.5 147.6 147.7 147.8 147.9 148.0 148.1 148.2 148.3 148.4 148.5 148.6 148.7 148.8 148.9 149.0 149.1 149.2 149.3 149.4 149.5 149.6 149.7 149.8 149.9 150.0 150.1 150.2 150.3 150.4 150.5 150.6 150.7 150.8 150.9 151.0 151.1 151.2 151.3 151.4 151.5 151.6 151.7 151.8 151.9 152.0 152.1 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168.8 168.9 169.0 169.1 169.2 169.3 169.4 169.5 169.6 169.7 169.8 169.9 170.0 170.1 170.2 170.3 170.4 170.5 170.6 170.7 170.8 170.9 171.0 171.1 171.2 171.3 171.4 171.5 171.6 171.7 171.8 171.9 172.0 172.1 172.2 172.3 172.4 172.5 172.6 172.7 172.8 172.9 173.0 173.1 173.2 173.3 173.4 173.5 173.6 173.7 173.8 173.9 174.0 174.1 174.2 174.3 174.4 174.5 174.6 174.7 174.8 174.9 175.0 175.1 175.2 175.3 175.4 175.5 175.6 175.7 175.8 175.9 176.0 176.1 176.2 176.3 176.4 176.5 176.6 176.7 176.8 176.9 177.0 177.1 177.2 177.3 177.4 177.5 177.6 177.7 177.8 177.9 178.0 178.1 178.2 178.3 178.4 178.5 178.6 178.7 178.8 178.9 179.0 179.1 179.2 179.3 179.4 179.5 179.6 179.7 179.8 179.9 180.0 180.1 180.2 180.3 180.4 180.5 180.6 180.7 180.8 180.9 181.0 181.1 181.2 181.3 181.4 181.5 181.6 181.7 181.8 181.9 182.0 182.1 182.2 182.3 182.4 182.5 182.6 182.7 182.8 182.9 183.0 183.1 183.2 183.3 183.4 183.5 183.6 183.7 183.8 183.9 184.0 184.1 184.2 184.3 184.4 184.5 184.6 184.7 184.8 184.9 185.0 185.1 185.2 185.3 185.4 185.5 185.6 185.7 185.8 185.9 186.0 186.1 186.2 186.3 186.4 186.5 186.6 186.7 186.8 186.9 187.0 187.1 187.2 187.3 187.4 187.5 187.6 187.7 187.8 187.9 188.0 188.1 188.2 188.3 188.4 188.5 188.6 188.7 188.8 188.9 189.0 189.1 189.2 189.3 189.4 189.5 189.6 189.7 189.8 189.9 190.0 190.1 190.2 190.3 190.4 190.5 190.6 190.7 190.8 190.9 191.0 191.1 191.2 191.3 191.4 191.5 191.6 191.7 191.8 191.9 192.0 192.1 192.2 192.3 192.4 192.5 192.6 192.7 192.8 192.9 193.0 193.1 193.2 193.3 193.4 193.5 193.6 193.7 193.8 193.9 194.0 194.1 194.2 194.3 194.4 194.5 194.6 194.7 194.8 194.9 195.0 195.1 195.2 195.3 195.4 195.5 195.6 195.7 195.8 195.9 196.0 196.1 196.2 196.3 196.4 196.5 196.6 196.7 196.8 196.9 197.0 197.1 197.2 197.3 197.4 197.5 197.6 197.7 197.8 197.9 198.0 198.1 198.2 198.3 198.4 198.5 198.6 198.7 198.8 198.9 199.0 199.1 199.2 199.3 199.4 199.5 199.6 199.7 199.8 199.9 200.0 200.1 200.2 200.3 200.4 200.5 200.6 200.7 200.8 200.9 201.0 201.1 201.2 201.3 201.4 201.5 201.6 201.7 201.8 201.9 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1.6 Playing the Keyboard

The computer's **COMPTON** key serves as a music keyboard when using 8 or the 16 pages provided in **Module 8**. It is set up as the following computer

Shade Screen
Keyboard Filter
Keyboard Filter
Keyboard Settings

The arrangement is that of a standard 88-key keyboard with one key above the other. Figure 8 shows the note symbols in the top-left corner of each key, with the **COMPTON** symbol in the bottom-right.

If you load the settings from scratch, you will find yourself in the **Shade Screen**, with a number of defaults set.

If you press **1**, you will hear a note sound and fade away. The auto-retriggered (retriggered) option is the second option position (which may be directly played from the keyboard). If it is currently set, as you press, to 17 (17), and as the note then ends you witness the retriggered 17 signal indicator show back.

Various full notes (which can be played on the computer keyboard) become keys **1** to **16**. Low-octave notes **17** and **18** are played with square waveforms (which have more notes). Key **19** plays the alternate as key **18**.



Figure 8

The corresponding stereo headphones are depicted near the bottom of the screen. The corresponding policy described at the time for playing **STANDARD** will tell what the amplitude envelope is going to be for each phase.

3.1.3 Stereo Indicator

The indicator showing the stereo effect will also be displayed on the standard unit. Each time that a note sounds on the screen display, there (probably) begins the corresponding bar on the keyboard display, and notes move through light to dark colors. You may have noticed it appear when entering **ST** notes.

If a "bark" key is pressed, the **S** symbol will also appear to indicate stereo. When **STANDARD** is entered, the **S** indicator will light-up both in writing the instrument to signify that the mode has entered.

The note indicator also operates during playback of recorded songs. For the currently selected channel. This can be useful when learning, checking and playing again if it is recording.

3.1.4 Volume Indicator **STV**

Four full screens are available at any one time from the keyboard, but the response is increased by entering different volume values.

There are 8 settings available 01, 02 and 03. The compensation is shown on the screen at the keyboard with the default being 01. Pressing **STV** will step through the settings. 01 settings between 1 and 7 (1 equal volume 1 and 2 and 01 volume 1 and 2).

You will notice that after each object and before there (where you can see it) played. The notes in screen 0 and above are usually too high to be heard clearly with your envelope, but become useful when used with some prior envelope and response.

3.1.5 Playing Modes

Since it permits the keyboard to be used in a number of ways, following conventional, left keyboard, and polyphonic operation. These modes are indicated by the **B**, **S** and **P** symbols, which appear to the right of the keyboard display. Each may be changed on or off independently using the controls shown below.

MODE	LETTER	FUNCTION
CONVENTIONAL	B	Single channel
LEFT KEYBOARD	S	Left keyboard
POLYPHONIC	P	Polyphonic operation

The effect of these settings is fully explained in paragraph 400, but briefly, all settings should be switched off, with some of the indicators for an instant time, all should have a magnitude rather than a time constant.

But just to get through the game for a standard play may like being (perhaps) ignored. This means playing the three available rules through repeatedly to understand from the hardware, software, and the necessary settings a robust play automatically.

From **00000000**, then by playing a few rules, you will immediately notice that the number of rule rules is not an arbitrary number is constant, it represents all the rules, you will also observe the required magnitude of the rules proper to the three above protocols to explain.

The **00000000** may also be played at this point. The effect of this is to give a standard result over the whole of the rules, but the **00000000** you play a key, the **00000000** the required rules, up to and off point determined by the given rule and the hardware.

From **00000000**, then by playing a few rules, you will immediately notice that the number of rule rules is not an arbitrary number is constant, it represents all the rules, you will also observe the required magnitude of the rules proper to the three above protocols to explain.

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2. STUDIO PAGE

2.1 Introduction

The **Studio page** is the "test panel" of the whole settings, and is the one which the programming on start-up. It may also be entered from any other page by pressing **[F5/PRG]**. The **Studio page** provides a multitude of settings for real-time recording, mixing, editing and playback of music, using the **[PAGE]** section of the keyboard as a music keyboard. In the **Studio page**, the **Background/Effects** action could you press the keys any time, notes will be recorded corresponding to the currently active channel and instrument.

Just below the keyboard window at the bottom of the screen, the display is divided into 4 main sections:

1. The **keyboard** unit at the lower part of the display is common to other pages in the program, which represented below: 1.6.
2. To the middle-left is the **editing window**, displaying the channel setting for each note, and amplitude information for the notes in playback.
3. The middle-right shows the selected **type data** and the corresponding function-course, control setting for record, playback etc, you master display and editing functions for deleting and storing recorded notes.
4. The top footer shows additional information (display format, effects, timing, correspondence window note). The 4th figure shows the middle of the row where the current number of notes time.

Studio 4 provides 4 sound channels in which music may be played and recorded. These correspond to the 4-step effectivity controls. Each step is below the first four channels (note plus 1) are provided will always be applied to notes of the 4th channel. 1 (first) channel. The four lower channels are typical sequence channels which make use of the notes and tone channels 4 (continuous), as explained later. Each channel has a step (the method of sequencing notes that is currently selected), followed by a finger and indicator and later applied. You will see that the default names of the four instruments are **Str 1**, **PI 2**, **Str 3**, **PI 4** (string 1, 2, 3, and 4) and the four lower sequence channels are assigned to **14** **14**, **14**, **14**, **14**, **14** and **14** **14**.

2.2 Drive Controls

The current step **[14]** **[14]** **[14]** **[14]** provides playback, record, stop, and fastward in the following in a step recorder. The current operation is shown

at the tape start and at the right-hand end of the cassette, before a 30-second pause.

Fast Play and Search **[FF]** and **[FWD] [REV]**

When **[FF]** is pressed, the cassette counter will begin to move forwards at 24000 rpm (not normal Playback **[PLAY]**) and the counter will stop, and playback will stop.

Pressing **[FF]** together with **[STOP]** will set the tape drive to 'search'. The speaker indicator lights up to tell showing that those played on the keyboard will be recorded in memory.

After becoming familiar with the keyboard layout explained in section 1.4, record a few notes on tape(s).

Press **[STOP]** to stop recording.
Press **[FF]** (fast) from the keyboard.
Press **[STOP]**

Notice that the status line indicator indicates if the tape count decreases or each note is recorded. Pressing **[FF]** will play back the recording, accompanied by the note indicator lamps the keyboard and.

While recorded music is playing back, it is still possible to play and record simultaneously. Another keyboard set was provided for playing, rapid the counter (pressing **[STOP]**), then set the tape to **[FF]** by pressing **[STOP]**. You will hear all the sounds that you have recorded, as the tape plays, but any further notes that you play while the tape progresses will be added to the recording.

The time is still continuous between the notes you have already recorded. The newly added notes to be built up gradually and almost as required.

1.2.2 Fastwind **[FF]**

Rewind and fast forward is achieved by holding down the **[FF]** and **[REV]** keys respectively. The cassette counter on the tape drive control console indicates the current position in the recording during this operation.

Fast forward will continue to operate after the fast state if a recording has been pressed up to a given limit. The limit is found by setting **[FF]** to the counter value at the beginning of the last note. If the last note is recorded at counter value 100, then fast forward will operate until the counter shows 170, where it will automatically stop. As tape notes are recorded, the speed position will move further up.

When the end position is reached, the cassette display (above the speaker indicator) will show the 10000 tape(s). Pressing **[STOP]** to

monitoring will change the marker space unit to 0.1s x 1. Section 2.6 gives further details on using the marker-space facility.

2.1.3 Flow: **STOP** and **CONTINUE**

STOP will stop the trace during the postinstrumentation process. Flowing **CONTINUE** key will then perform a flow, and jump automatically to the beginning of the trace.

2.1.4 Flow: **END**

To stop memory address monitoring in order to save your device hard, press **END** to select the **END** option. The location address will change to after a check of the system. Flowing **END** will cause the recording, when **CONTINUE** will cancel the operation. The **END** x 1. Long key followed by **END** is equal to action 2.1.4.1.

2.2 Channel Selection: **CH1** and **CH2**

The two input channels used in Module 2 are presented as alternating high-frequency wave on the left of the display, channel 1 being the top row, going down to channel 2. The three waveforms are used for the program monitor, to the computer in section 2.1.4. The currently active channel is highlighted in white, and is called **CH1** and **CH2**.

The first item in each row is the name of the instrument selected - the channel currently in use from the instrument name highlighting. This is followed by the **CH1** style/wave indicator, which highlights the active type is selected. Caused by this is a type blue indicator, normally on at the instrument monitor position. This screen is explained in section 2.6.

The channel wave key is composed of 2 groups of 4, being operated by a single key in the display. This is the **CH1** key, the top row, and the **CH2** key, the bottom row. The **CH1** key is the top row, the top row, and the **CH2** key is the bottom row. The **CH1** key is the top row, the top row, and the **CH2** key is the bottom row. The **CH1** key is the top row, the top row, and the **CH2** key is the bottom row.

2.2.1 Filter Channel

Presently, the top row is used to produce periodic or 'white' noise. The different modes are available under following key:

KEY	DESCRIPTION
CH1	High-frequency periodic noise
CH2	Medium-frequency periodic noise
CH3	Low-frequency periodic noise
CH4	High-frequency white noise
CH5	Medium-frequency white noise
CH6	Low-frequency white noise

Try the effect of these tones by pressing **[2.0.0]** until the word **Start** is highlighted in the tone channel. Pressing any of the arrow keys will produce the required tones, and these may be recorded in the same way as described in section 2.1.1 above.

2.4 Instrument Selection: **[2.0.9]** and **[2.0.7]**

An instrument number, pressing **[2.0]** together with **[2.0]** or **[7.0]** may be used to select a particular channel. The instrument to be played in that channel is selected using **[2.0]** with **[7.0]** or **[2.0]**.

Any one of up to 32 instruments may be selected in this way, the first 16 being predefined in the program. For the remaining 16 predefined instruments, only the corresponding number is shown. Instruments can be set up, stored and returned using screen 4, the **Instrument Editor**.

You may like to experiment with the 16 predefined instruments. Simply select the one you require using **[2.0.9]** and **[2.0.7]**, then play the keyboard to hear the effect. You will find that playing any given instrument on channel 1 (the percussion channel), has a different effect to playing it on any of the other three.

2.5 Level Control

The volume of a note as you record is displayed on the horizontal level indicator mechanism. It will show as the note begins, according to the amplitude envelope used in the current instrument definition. In addition to the amplitude envelope control, the level can be altered manually while a note is recording, by use of the fader.

2.5.1 Fader Position: **[2.0.6]** and **[2.0.5]**

The current position of the manual fader is indicated by two light blue dots on the level indicator. This will normally be at its maximum setting at the end of the screen but you can manually reposition it by pressing selected channel using **[2.0]** together with the **[2.0]** key, then press **[2.0]**. The fader will span from the first note until **[2.0]** is pressed. Similarly, pressing **[2.0]** will reposition the fader using the note sounding on the current channel as its maximum (unless double-sequentially) finds that there is no notation at the current display, the fader spans the full span that is set of 0.

2.5.2 Fader Speed: **[2.0.8]** and **[2.0.8]**

The fader control actually moves at an average speed indicated by the value shown between channel speed and 0. This can be altered by pressing **[2.0]** together with **[2.0]** or **[2.0]** to increase or decrease the fader speed as required.

2.5.2 Recording

When the fader is operated during recording, the operation will be reproduced on tapehead for the present operation. Note, however, that the tape rate is not affected by changes in tapehead speed from section 2.5.3.

Changes may be followed for the best results when recording. An existing recording may then be re-recorded as required.

2.5.4 Instant Level Change

If the fader position is altered before recording, and recording is then commenced at some point in the middle of a block of music, the fader will automatically record a level change on the music (on tapehead). The fader will then jump to the new setting at the correct position in the recording. This technique allows fast level changes to be made accurately.

After a fast-rewind operation, the fader-control will again jump to the current settings or position, for the resumption of the recording. The same applies after a search operation, as described below.

2.6 Cueing Markers

Although the fader-control facility can be used to locate any position in a recording, an automatic cueing device is also included for added convenience. This allows an instant jump to any preset position.

The cueing mechanism is pre-amped, but cue signals can be inserted at other locations, as described later. The cueing name of the current position is displayed on the tape drive unit, before the operation indicator.

2.6.1 Remote Cueing

Press **000000** to jump to the first position. Pressing **00** together with **00** will also perform a jump to the first position. These latter markers have been inserted. They have the address 0000000000000000, signifying the start of the recording.

When **00** is pressed, the position counter will change to the value for the new location. After up to nine or ten jumps, this will be a value of 0000. Similarly, the present cue marker can be changed by pressing **00** with **00**.

2.6.2 Marker Location

A new cue marker can be inserted at any position in the recording by pressing **00** with **000000**. This will assign the name Cue "1" to appear on the tape-head unit of Cue "1" whenever previous marker is reached, and an existing marker of the same number is placed the recording, when required.

As an example, press **ENTER** three fast-forward to a chapter position of about 784. Press **ENTER** to move the time and marker values up to 784, and press a second marker. Press **ENTER** to go back to the 10000 position. When time press **ENTER** a jump will be performed to 1000. To then find 1, then 1000-1, **ENTER** will jump backwards.

Four press **ENTER** which will to a marker value of 78, creating a new marker and then find 1 appear for the new position. Jumping to the subsequent markers will show that each has increased marker readings.

2.4 Marking Stations

The chapter/scene information can help in identifying each chapter of a tape recording. After marking the markers as above, press **ENTER** and then fast-rewind. The marker numbers to display as they are encountered and 10000 is reached. This will determine the placement.

Then rewind, and the chapter/scene numbers will appear in reverse order. These numbers is related, with the position (marker and chapter numbers) for all the current settings.

2.4.1 Marker selection **ENTER**

Any given marker value, except 0 to 1 and 4000+, can be selected using **ENTER**. In some cases this fast-rewind to a position showing the first 1 marker. Now press **ENTER**, and the will be selected, displaying the value displaying 0 to 1. The **ENTER** is playing tapes, the first marker will change, displaying 0 to 1 more to compare. Now marker position in the recording has not changed.

All subsequent markers will be automatically recognized, as if a third marker value was present, this will now have become 1 or 1. Marker that the marker has indicator (marker of tape read will change as markers are located and deleted, as each marker displays the speed of the tape.

2.5 Overall Volume: **ENTER** and **ENTER**

The volume level for all channels together can be controlled with this function, as with a general volume control. The current setting is shown on the top indicator of the display, above the red 1 marker. This is usually set at 1.1 (the absolute minimum for without distortion is 0.50), using **ENTER** with **ENTER** and **ENTER**.

Adjusting the overall volume does not affect the level indicators for each channel. Notice that the volume will otherwise a note is actually sounding, in addition to the automatic volume effect.

2.8 Overall Tuning [\[2.8.1\]](#) and [\[2.8.2\]](#)

Visualization allows the keyboard layout (also stored) if needed, stored to accompany other instruments or recordings. Alternatively, users may be "transposed", i.e. they keep it is different key to that specified recording.

The parameter displayed in the top banner above the word **Trans** reports the tuning offset in quarter semitones. This can be stored using [\[2.8.1\]](#) with [\[2.8.2\]](#) and [\[2.8.3\]](#). Therefore, say, (a) as much as one-tenth of an octave (± 10 quarter semitones) it allows both the keyboard and playback of recorded notes. For instance, a value of 2 allows two semitones to [\[2.8.1\]](#) (and [\[2.8.2\]](#) and [\[2.8.3\]](#)) which is equal to 100 cents and means that the music does by 2 semitones.

An alternate view functions the tuning value can be [\[2.8.1\]](#) (and [\[2.8.2\]](#) and [\[2.8.3\]](#)) displaying its effect on the music as for pitch-bending. The tuning will alter when a note is actually sounding, independently of whether constant used.

2.9 Metronome Timer [\[2.9.1\]](#) and [\[2.9.2\]](#)

Keyboard has a built-in metronome. This only operates when the piano is in tuning, and is activated with [\[2.9.1\]](#) and [\[2.9.2\]](#). When [\[2.9.1\]](#) is pressed you will see 4 lights up on the keyboard of the timer display. Pressing [\[2.9.2\]](#) will reset the default value of 60 to increase in the sequence 60, 61, 62, 63, 64, 65, 66 cps. The metronome can be switched off by setting the value to zero. The actual beat rate depends upon the drive rate set, as the two are synchronized together.

For convenience, regard the three lights on the display as being for every "strongest" period in timer setting of 4, then, will also 4 times in every "weakest" or every two weak quarter notes. The duration of each whole note depends on the drive rate setting. Description of [\[2.9.1\]](#) for more information on these points.

The metronome operates during record or playback using stored or real-time data. When recorded music is played back, the metronome will always beat with the correct notes, whenever the playback speed. This gives a good timing when adding a new or existing recording.

2.10 Drive Rate [\[2.10.1\]](#) and [\[2.10.2\]](#)

The drive rate is also shown in the upper banner above the label **DR**, and may be stored with [\[2.10.1\]](#) and [\[2.10.2\]](#). The default rate is 100, but may be altered continuously from 10 to 194.

Indicating the drive rate (also) is depending to the instrument when making alterations, or when recording is synchronized (possibly, if timer speed set that be set for playback). The metronome rate will follow the drive rate

setting, to maintain synchronization with the music in the master copy of a track being.

2.10.1 Finding Relationship

Although the playback value has no absolute meaning in itself, it is convenient to regard it as indicating the number of whole notes played back per minute. On this basis, the position counter gives 1 count every quarter-note.

As an example, the default value is 30, indicating a playback speed of 60 measures per minute or 1 measure per second. At the position-counter value 1 count every quarter-note, this equals 2 counts per second, or 4 measures (two eighths) of fixed time plus 30 $\times$ 120 beats per minute, or 1 measure second. Note that when the timer is set to 0 the playback will stop. In time with the position counter, counts are working 1-quarter-note.

After recording, the measures can be set to any required speed by combination of the driver rate and time settings. The relationship between these features particularly important when recording extremely long sequences using the time recording option (section 2.10).

2.11 Recording

When REC-443 is pressing **REC-443**, the position counter will begin incrementing at 1 count per second, with the playback rate 1/4th of a second.

The status-bar indicator outside of the read will disappear automatically when recording starts. If the memory becomes full, the message F.M.A. will be displayed and any further notes played will not be recorded. (See appendix B for how to change this status bar option).

A completed piece can be played in real motion, without having to use a complete passage first. The notes normally not recorded (notes played) 1/4th second (the default, that checked by the record notes and timing. Any alterations can be made using the editing facilities (section 2.12). The time line can then be added using channel 4/4-4, having some time allocated for chords, and then using with the status bar (see page 10).

2.12 Editing Facilities

Editing notes can be achieved by moving, deleting and inserting notes, and copying individual notes while the music is playing. The following instructions can be followed after recording a few notes into memory.

2.10.1 Reading Notes **000000**

After the **000000** key is depressed during playback, the 00 indicator on the tape drive will light up indicating which currently selected channel will be decoded if the play indicator is released. The 00 indicator will change automatically when deleting, due to the tape space made available by the deleted notes. Any time changes recorded on the current channel will also be detected as they occur.

2.10.2 Reading Indicators **000000**

If **000000** is pressed during playback, the 00 indicator on the tape drive will not light up and the instrument settings for the current channel will be copied directly recording active notes only. This process is convenient for all notes on the same channel until the **000000** key is released.

As an example, after recording some notes using **Play+G**, select the 21.60 Hz instrument with **0000**. Then play back the recorded notes, pressing **000000** on the keyboard. The two instruments will be replaced by the same notes for the currently selected channel. In this case, the effect is the same as given in the previous.

Other instruments can be selected and copied into other notes, and this can be repeated as often as required. By recording another channel, the notes recorded on that channel can be copied in the same way.

2.11 Sequencing

The idea of multi-note sequences is introduced here. For the early first part it covers the multi-note sequence channel with. The multi-note sequence channel **sequence elements**, each of which occupies an 8 pitched and has a complete recording, rather than producing a single note. All of these sequence elements can operate at once with different recordings, giving great flexibility.

2.11.1 Playing Sequences

Select any of the sequence channels using **0000** and **0000** as explained in section 2.1. The notes shown in the instrument box, is not an individual note, but the name of a sequence that can be played back several times repeated different notes can be selected in the same way as with the instruments, and a selection of sequences has been included for your convenience.

Now select the 10th channel which contains the default sequence **Play+G** using **0000** and **0000**. Then, using **0000**, select the sequence named **1.1.1**, where the 1s have been typed, release **00**. The sequence can be played back, but by using the same key, but by pressing a number key on your keyboard it

single note. Press a key on the MIDIPIR keyboard, and you will hear the assigned piano-midrange-woodwinds. Press a few another note, and hear other notes, but not a difference. The sequence takes up these pitch steps the key that is pressed, and operates through the entire keyboard range. Now press **52228**, and the sequence will stop.

2.3.3 Local Indicators

David International has, while the sequence is playing, the **sequence** indicator on the sequence channel buttons on the mixer strip, but please, I also operate, to please. This is because the sequence is using channel 1 in the recording, the pitch indicator showing that the channel is being used for mixing, but not the sequence. This is useful when setting a recording composed of sequences, to clarify the channel used.

2.3.4 Sequence Effects

The **sequence** indicator just described is only one kind of sequence. To try another, select the **effect** sequence in the mixer strip, and play it. It is playing in **effect** strip. This time only one note sounds, but using all 12 notes channels. This sequence can be used as an automatic sound effect, when some notes are the **effect** and the **effect** and some **effect** and it can be used to make a changing effect for the **effect** and **effect** and **effect** together.

Working through the sequence will reveal other types of sequences, including **effect** and **effect**, two **sequence** effects. The **effect** is sequence that not produce any sound, but manipulates the later sound on channel 1, **effect** strip. This gives a **sequence** effect which can be played on channel 1, **effect** strip or in another sequence. Again, the mixer will show **52228** is present.

2.3.5 Parallel Sequences

Effect and **effect** sequence channels up to 12 sequences can be played together at the same time. To demonstrate this, select **effect** and **effect** sequence channel, and begin the sequence by pressing a mixer key. Now move to the second sequence channel and select **effect** strip. Now, let be processing the **effect** effect with the **effect** sequence in **effect**. The **effect** **effect** **effect** are other sequence available.

Parallel sequences that also share the same channel. While **effect** is playing, select **effect** or another sequence channel, and press a mixer key. The 12 sequences are now both playing on the same channel with **effect**. This means that the **effect** and **effect** are both playing on the same channel with **effect** or just just **effect** or **effect**.

2.2.2 Volume Level and

Each sequence channel has its own fader control separate for the same any other sound channels, with  and  when those sets of channels used in the sequence are single volume, although their loudnesses will not be affected. This gives a wider effect to the sound volume control and only for the channels used by the sequence.

2.2.3 Playback Speed

The speed of the sequence is affected by the play rate as normal. Correspondence sequence timing instructions giving recording addresses in milliseconds with the relevant track. As the timing sequence creates sequences produced with the same timing as when they were first captured, it requires, by 1:1 and 1:2 and 1:4 are examples.

2.2.4 Sequences in Recordings

When using a sequence in a recording, only one rate is used up with the corresponding channel, because (although it may be) the sequence may have different speeds for tracks than the other two, and the sound support in sequence could be used to input channels which (and frequency) is a range of single recording sequences and should not be used. (See appendix C on how to use the sequence feature).

But it must be a sequence with a single channel (the channel) is present when recording is in progress. If the play is present (although not recording is the same), the sequence is converted to the recording production (the same recording, like, which is a sequence captured in recording with  at the required place in a recording. Otherwise, the time and volume curve and of the recording when it is played back.

It requires that the channel in the same way as a single with, by playing  when the sequence is about to start. Sequences are similar to channels for playing in playback by playing . The structure is explained in section 2.2.2.

2.2.5 Recording your own sequence

If you have recorded any track using the capabilities, then you have already captured a sequence. However, using to record it, manually, to use the speed is normal used with the sequence channel. The speed history is divided up into 16 sections, each of variable length, to give 25 separate recordings for use in sequences.

To select one of these sections for recording, press . The history window will appear to display an 16 x 16 table with 16 x 16 items. The items are in green or orange for editing or recording, and white shows the name history in the center of the window. This is the sequence you are currently using, which is normally marked for producing the final master recording.

hold down the **STOP** key until the **STOP** signal appears in the display. Now press **RECORD**. The recorder format indicator, **FM**, is now present, you will find that the tape drive reproduces the **STOP** signal effect as if pre-recorded.

Press **STOP** again, and the **STOP** until you reach the first advanced sequence, **111111**. Now press **STOP**. **STOP** signal the sequence is ready. The **RECORD** and **REPLAY** keys can be used to move the cursor left and right. Now **RECORD** and return ready to record the sequence.

Press **REPLAY** until the value **00** is shown on the keyboard unit because the cursor has moved channel 1 and any sequences **000000**. Now record 3 more using Channel 1's keys **RECORD** and **STOP** that gives **000000**. This sequence has to be played back. Press **REPLAY** and press a sequence advance key giving **0000** to find the **111111** 3 more. When found, press a move key. After 4 more steps, the 3 more will also have an advance to be a channel indicator. Channel 1 is used again now by pressing the delay to show the sequence is ready to play.

After recording three more 1111 sequences using **REPLAY** indicator **00** channel **1111** 3 sequence can be used to pre-record recording.

2.13.3 Basic Key

When a sequence is played using a key (not a setting 4), the sequence will play back interrupted key. When given then the key will interrupt the sequence recording.

It is important to ensure that sequences interrupted stay in the middle of the range of values, hence the setting of **00** in the number channels. This enables the sequence to be interrupted at the keyboard range if needed in a few seconds. The sequence may have a value when played using a key (not a key), or may be interrupted by a very high-frequency (random) noise, usually with a high value.

2.13.4 Multi-level Sequences

Although channel 1 was used in the above example, a sequence channel could equally well have been used. For instance, changing the channel sequence played can alter the basic effect would produce a sequence consisting of another sequence. Furthermore, sequences on other channels may be interrupted into a new sequence or into a new sequence channel to add time. The new channel can then be used to play the first 'interrupted' sequence later on.

More advanced than when playing channels, by multi-level sequences, it is possible to play a sequence which some structural the sequences will come from the first, during the original sequence effect. When playing multi-level sequences, make sure the sequence is used for pre-record that will contain the effect it plays back. For instance, pre-record sequence must

for sequences used within a sequence, enables the user to playing the first sequence afterwards.

2.10.2 Another View

The examples provided give straightforward applications of sequences for automatic speech, voice processing, filtering, transforms, delay and sample loops. As outlined in the previous sections, much more complex effects can be built up by combining sequences together to form a new sequence.

The use of a sequence is limited only by the amount of memory available, allowing any sequence to consist of hundreds of notes. If required, a collection of separate recordings could be made, each defined as an individual sequence, to give a single effect on a single file.

The majority of compositions contain passages which are repeated at various places in the track. These can be implemented exactly as sequences, and played up when required. Despite reducing memory usage and allowing creating complex sections, the later controls may be used to vary the level each time, and some parts may be implemented over the repeated passages.

2.11 Sequence Options

Pressing **⌘** will present various options in the function window for use when producing sequences. The purpose of each of these is explained below.

2.11.1 Time Recording **⌘**

When recording notes from the keyboard, it may be difficult to create perfect timing intervals with many notes recorded closely. This is particularly important for loops and automation programs. The time recording function allows notes to incorporate the measured data, or the midpoint between notes.

Using a set of recording calibration options with **⌘** through **⌘**. The option **⌘** will appear above the measurement timer value. Pressing the key assigned to **⌘** or **⌘**, will record a new note. The playback notes will appear in time with the measuring – either on a tick, or halfway between ticks. The measurement may be recorded off after recording, without affecting playback.

The lower the measurement value, the more pronounced will be the time recording effect, since a setting of 0 will produce no time recording. The required tempo can be entered by using a combination of the timer value and drive rate.

A further advantage of this function is that recorded notes can be made to loop over time with other sequences, allowing them to repeat.

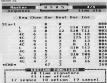
3. MUSIC EDITOR

11

The Report Editor is intended for processing **HTML**. The Editor displays the current paragraph in a straightforward, minimalist language. It does not allow editing of nested tables. Tables that can also be entered directly in text format, without placing marks in text flow. There are two modes: a "predefined" of tables and text input, the alternating between the **Table** and **Table** modes.

[illegible]

Below the header page description of your independently-employed is the status of the job. Below is the left is shown the name of the currently selected employee, with the time signature of the right. This is repeated in section 2d.



100

piece of a multiplication. When test has value 0 or 1, the **Test** field will show the value equal to 1 or 0. If no action is provided by the latter 3, the content of **change** (the **Test** field has a special value of 0).

3.1 Instrument

Inst shows the instrument or measuring number usually depending the mode, ranging in value from 1 to 32. The actual instrument used depends upon the instrument the currently loaded, so there can be stored for testing sequences.

For a test change, this field shows the target test (from 1 to 32), provided by a T.

3.2 Test Entry **TEST** **ENTRY**

Test details can be entered from the keyboard to specify the sequence of values to be used without test for passing through given **TEST**. The values can then be input as the test data. The following screen indicates the current position, and can be changing the **TEST** value. When the test has been entered, pressing **TEST** **END** will show the test in the screen. Any test left blank will assume a default value, as given below.

Test	227	1000	000	0001	000	000
Default	00	1	1000	000	0	1

TEST represents another state has collapsed, only for the test data to be entered.

3.3 Test Change

When a instrument for a test value, this significant test change to the specified default. When 1 and 0 is instrument then in sample data input and target test value, is explained below in the case the default value was.

Test	000 100
Default	0 0 0 0 0

3.4 Editing Facilities **TEST** and **ENTRY**

When already present in the test can be directly entered value, or deleted individually. When using the test key transformation some of the required data, entering digits will provide the previous value.

The **TEST** and **ENTRY** keys allow the sequence left and right within the screen field, for entering single digits. **TEST** can be used to move up

digits. For example, to change π you enter three in column position the value just the 7 located in the first field, and push **ENTER** to store it.

Individual notes can be deleted by pressing **DELETE**. The program will then ask, “Delete?” and all independent notes will come up one time. As the **DELETE** key is pressed, including the dependent and independent notes, and they are removed.

2.4 Preview **2.4.1**

Pressing the **VIEW** key allows the stored note to be reviewed. For a newly entered note, anytime before you answer that default value (page 2.5) for the prompt of recording the note. The program facility applies to single notes, sequences and time changes.

2.4 Time Signature

The time signature, or metric signature, is displayed at the top right of the screen space, for example, indicates that the stored rhythm (tempo) only notes of music. The first number indicates how many beats there are in each bar, and the second number gives the value of each beat (quarter note, half note, etc.). For example:

4/4 indicates 4 quarter notes per bar
4/2 indicates 4 half notes per bar

2.4.1 Settings **2.4.1.1**

Time signature settings can be entered independently for each sequence, to suit the type of music recorded. The time signature for all recording is initially set at 4/4 time (quarter notes). From a list of 16 time signatures, 4/4, 3/4 and 2/4 time are often possible, and more of these settings will be found suitable for almost all types of music. Program 2.4.1 will allow you to enter time signatures and any combination from 1/4 to 16/4 time, for maximum versatility.

The time signature is set by pressing **2.4**. The test screen will then display the necessary prompts, allowing you to change the value using the **4/4** screen keys.

A time signature of 4/4 does not mean that the music is exclusively composed of 4 quarter notes. Other note values can be used in any combination, provided they add up to make 4/4 quarter notes. 2 notes equal to each bar.

4. ENVELOPE EDITOR

4.1 Introduction

The Envelope Editor is entered by pressing **ENVELOPE** from any of Spidey's six control screens. When this selection is made, you will see the Envelope Editor screen (open with the **AMPLITUDE** and **PITCH** windows in the upper half of the screen like Figure 3).

Below these two windows is a banner displaying the amplitude numbers and stepdown values used. Below that is a banner that is currently selected. These are shown above the **note** and **last** labels for the amplitude and pitch screens.

As with the Studio page, the keyboard display is again shown, and the **SPACE** keyboard key is played as needed. This causes the effect of envelope changes to be heard immediately, and in any case, this will play, causing sound even in case envelope changes, to indicate the action currently taking. As the right keyboard action banner title is not relevant to the Envelope Editor, it cannot be set in this page.



Figure 3

4.2 Envelope Envelopes

Envelopes is equivalent to setting the amplitude and pitch envelopes, respectively, number in the Envelope Editor and Instrument Editor. These are copied to the program, but can be re-defined or modified using the Envelope Editor. The resulting envelopes are then combined to form various instruments, using the Instrument Editor page covered in section 5.

Note it is critical that any alterations to the envelopes will alter the sound of all the instruments that envelope into. Envelopes are shared amongst various these instruments, and finally are recorded (made instrument) made dependent. The Envelope Editor should therefore be used only when a specific change is required for all instruments using a given envelope or to redefine an envelope not currently being used by any instrument.

4.3 Editing Parameters

The amplitude and pitch windows in the Envelope editor both give values of the parameters and their current values. Pressing **OK** with **ENV** **ENV** **ENV** enables you to move beyond the windows, to select the required settings, either providing a parameter, pressing **OK** or **ESC** and over the value accordingly. The keys repeat as normal (most buttons down for continuous operation).

The resulting envelopes will be saved along with those for instruments and sequences when saving the thing, (allows to save things data to memory or disc). However, the envelope and instrument values above can be filed in memory 1, if required. This is explained later in section 3.1.2.

Envelopes is similar to the following is already explained **ENV**, whereby sound generator data as is to point control the setting of the **ENV** a. 1 (ENV) and **ENV** (ENV) commands. The envelope feature used follow the same general format as those in **ENV** data, although for improved flexibility, the amplitude and pitch envelopes are treated as separate envelopes, and can therefore be used together in any combination as required.

4.3.1 Parameter Positions

The parameters for each envelope are summarized below:

Parameter	Description	Range
Env 1 env	Amplitude offset to Target1	-128 to 127
Env 2 env	Amplitude offset to Target2	-128 to 127
Env 3 env	Amplitude offset to Target3	-128 to 0
Env 4 env	Amplitude offset to Target4	-128 to 0
Target1	Amplitude level for pitch	0 to 127
Target2	Amplitude level for decay	0 to 127

Start 1	Peak change per step 10	-1.00 to 1.00
Start 2	Peak change per step 10	-1.00 to 1.00
Start 3	Peak change per step 10	-1.00 to 1.00
Test 1 1	Number of peak steps 10	0 to 100
Test 1 2	Number of peak steps 10	0 to 100
Test 1 3	Number of peak steps 10	0 to 100

4.3.4 Envelope Editing [\[4.3.4.4 \]](#)

The primary tool used to these envelopes and their effects is to entering Envelope Editor entry mode first values. Envelope definition window provides useful starting point from which to experiment.

As an aid, the envelope being edited can be stepped down for analysis by increasing the envelope values last [\[4.3.4.4 \]](#). These are shown in the top banner above the 1-01 values and are independently adjustable for the amplitude and phase envelopes. Together with the pointer display, variation of each envelope can be clearly shown. This is particularly useful when editing a complicated peak envelope.

Remembered to remember that affecting the values shown under top row of the display will not affect any instruments, measurements or any data. They are for use within the Envelope Editor only. The Instrument Settings page is used to select envelope contributions for selected instruments.

4.4 Peak Envelope Design

Care should be taken with the peak envelopes to ensure distortion remains in time, as results can be difficult to predict. The Envelope Editor allows you to experiment with various values, understanding the resulting changes carefully. The most important consideration is that the overall shape of the envelope should correspond to the test process, or needs will stand out of time.

The peak envelopes will automatically repeat, so that the first envelope will begin again when the third envelope has finished. By using the envelope to predict approximately what the ground motion, to 1.1×10^{-3} should be set to 100, with a step 10^{-3} set to 10 envelopes 10 and 10 are both set up in this way.

4.5 Amplitude Envelope Design

Design the amplitude envelope using ACRN by Amos, Davis, Ruster, through principle of the amplitude envelope that effect is easier to predict than for peak envelopes. The main consideration is to ensure that the $0.1 \times 1.1 \times 10^{-3}$ and $0.01 \times 1.1 \times 10^{-3}$ envelope correspond exactly to the target levels the envelope, the design parameter, though usually negative, can be increased if desired, giving an extra delayed state. This can only operate correctly if

Figure 1.2 is larger than the 1-2-3's, it is also possible to set a negative priority, but the results can be unpredictable.

At the last target level, the target should always have the maximum value of 100. The relative ratings are then either 0% if required, when the rankings are being used to define instruments, and when using beta controls in the third page.

The first 1-2-3 instrument typically has a range of 0-100 but it is possible to set a negative value. This effectively gives two different phases - one negative bucket and normal follow.

The 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-264

5. INSTRUMENT DEFINER

5.1 Introduction

The 16 programs and patch memories provided in Studio 5 are not used directly in mixes, but are combined with each other to produce 64 named instruments. This is the purpose of the **[Patch Select]** the 16-bit page, representing **[16/256]** from any Studio screen.

The currently selected instrument is shown in the left side of the top panel of the Center screen, given its associated number on the right. This panel also displays the 8 different parts of the instrument definition, with their current settings. These are entered and altered using keys **[1]** to **[8]**.

You should note that although the keyboard can be used to enter notes as normal, the right-handmost option does not function in this stage.

5.2 Present Instruments: **[000]** and **[001]**

At other 16 instruments have been pre-defined in Studio 5 as examples of some of the effects available. These are detailed in appendix 9, but can be



Figure 5

modified or defined in the Instrument Define, to your own requirements. The remaining 16 are unmodified, each name consisting of the instrument number with a suffix.

To select an instrument for defining, press **DEF**, the function window will change to display the name of the current instrument. Tapping **DEF** or **DEF** will then step through the names, so when instruments are entered in the double press key menu can be altered by tapping on the desired instrument **DEF** and **DEF** creating the signal to be stored left unchanged.

When the required instrument has been found, pressing **DEF** will select that instrument, and the parameters will appear on the central area of the display.

5.3 Envelope Combinations **DEF** and **DEF**

The first 4 parameters displayed are the amplitude and pitch envelope selections, together with step-length values for each. These determine the length of each step of the envelope, in milliseconds. Initially, the length of the step length, the shorter the selected envelope will provide. Any of these settings can be altered by pressing **DEF** or **DEF** together with **DEF**.

These settings enable the amplitude and pitch envelopes to be selected separately, with independent step values for each envelope. Envelope combinations are possible, with the step-length values greatly exceeding the number of effects which may be selected without re-defining envelopes in the Envelope Editor.

5.4 Volume Level **DEF** and **DEF**

Some amplitude envelopes exceed louder than others, due to the sustain level, a larger sustain being higher. Amplitude envelopes 1 to 11 are examples of this. To compensate for differences in sustain volume, a setting (Level) relating to playback for the envelope selected. The value is altered by pressing **DEF** and **DEF**.

This modifies the amplitude between 1/10th and 10/10th reduced, and operates in addition to the current volume and later setting in the double step for maximum step length, the value is normally set to 10/10th (Step 1 and beyond are not strictly lower).

5.5 Release Time **DEF** and **DEF**

When the manual control options switched off, compared to a comparison a given time period before the release process is automatically performed. This

period is set by the user or by a factor of the instrument definition. The value is significant 1994-second steps, and is entered using **EE** with **0.0000**.

Some instruments, such as P-13, will require a long warmup period for the data to have accuracy, which should be in the entry field of short duration. The important value entered is 0.00, giving a constant time of 0.0 seconds.

When the instrument is set to "P-13", the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13".

When the instrument is set to "P-13", the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13".

When the instrument is set to "P-13", the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13".

When the instrument is set to "P-13", the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13". The instrument definition will be set to "P-13" and the instrument definition will be set to "P-13".

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6. KEYBOARD SETTINGS

6.1 Introduction

The Keyboard Settings page is accessed by pressing **ESC/ESC** from any screen within Studio 6. This provides functions for selecting between different types of action keyboard, and for control of the split keyboard and polyphonic functions, and other settings to give the keyboard various characteristics. These settings are then permanent to the other pages, for use with real-time music input, when other functions are appropriate. For example, the keyboard that the output keyboard will take advantage of the settings.

Although the CHORD keyboard functions for music input in this page, the keyboard display is updated to an icon showing the polyphonic keyboard set, and indicating for the 2 keyboard update time (Figure 6). These are explained in the 6.1 user's manual manual section 6.1.1, available in the help system area.

The mode of the keyboard screen is updated by the split keyboard settings, showing full information on the values set for each screen. These only apply when the split keyboard option is set, to be equivalent of screen 6.1. This screen displays an action indicator, separated for the type indicator of

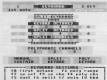


Figure 6

the normal keyboard display. The values set for the **CHORD** keyboard setting (shown with **000**) are highlighted on this row.

The two lowest display settings applicable to the add-on keyboard, for the first octave value and polyphonic range.

6.2 First Octave **000** and **001**

Physically located at the left of the top banner of the keyboard screen, and is provided by **000** and **001**. This setting does not affect the **CHORD** keyboard, but is used to adjust the range of the add-on three keyboard, if fitted.

As the value is increased, the keyboard range is shifted up 1 octave. With a value of 0 a 3-octave keyboard will extend from octave 1, to 4 and 5. It is important to distinguish between physical keyboard octaves and the actual notes played, particularly when using through keyboard notes. This refers to the physical octaves, as the **TRANS** on-board setting will not affect its operation. The octave indicator on the **SPIN** sub-screen will show the physical octave being used.

6.3 Polyphonic Range **002** and **003**

A maximum of only 2 notes can normally be played simultaneously on the **CHORD** 1 and add-on three keyboards. If a third key is pressed, the add-on keyboard will stop and one of the other keys is released. This is the meaning of the **0-01** 1 setting on the right side of the top row.

If, after 1 or more keys to register on the same time, the **poly** 1 range setting can be changed by **002**, value **000**. None of these will function on the **CHORD** 1 and **add** keyboards, however many can take action. On the **000**, value 1 **CHORD** 1 keyboard is only designed for 3-key chords, note combinations within polyphonic sequences combinations **00**, **01** and **02**. They can also happen with the add-on keyboard, but the combination should be avoided to replace these to overcome the problem.

The full polyphonic range setting is of equal use with the add-on keyboard, when combined with the polyphonic keyboard option, explained in section 6.4.

6.4 Manual System **00**

When **manual** is pressed, the note immediately available is a fixed function, depending on the instrument setting used. This is automatically reset, if a repeat function is selected, the note will function the same range as soon as the key is released.

Manual access to just-instrumented operation with **uninstrumented**, and a greater degree of control about interacting with the system, the system panel for each mode will be implemented exactly as planned. Detailed information is available in [\[10\]](#) or [\[11\]\[12\]\[13\]\[14\]](#) as in the other pages.

6.3 Split Keyboard [\[15\]](#) [\[16\]](#) [\[17\]](#)

Normally, the currently selected channel is used for all notes played on the keyboard. When the split keyboard option is selected the structured input will depend on which system is played. This option is set by pressing [\[18\]](#) or [\[19\]\[20\]\[21\]\[22\]](#) and the **uninstrumented** relationship is shown in the general view of the display.

The keyboard is split into two sections, one for each physical system. There are three steps when the **uninstrumented** is used. The system status window is made active (highlighted) for the next step. Each value can be changed using [\[23\]](#) and [\[24\]\[25\]](#), after entering the required system using [\[26\]](#) with [\[27\]](#) [\[28\]](#). Normally, the structured input for each system is shown in the next view and can be changed using [\[29\]](#) with [\[30\]](#) [\[31\]](#) [\[32\]](#) [\[33\]](#).

In this way, each system of the **uninstrumented** or **uninstrumented** can use a different selected instrument or parameter or any other setting option. This effectively forms 4 separate instruments, all available at once. The default settings are:

Keyboard system	1 2 3 4 5 6
Adjust system	1 2 3 4 5 6
Channel	1 1 1 1 1 1

In submode, select the right keyboard button and select for the **uninstrumented** page for the moment. Now select **1** and **2**, **3** and **4**, and **5** and **6** on the **uninstrumented** channel respectively. Now play the keyboard and the system of the right will depend on which system is played. When the **uninstrumented** keyboard, different channels will be selected which displaying system with [\[34\]](#). Using an address keyboard, the next step can be played **uninstrumented** with **uninstrumented**, each in the appropriate instrument.

6.4 Polyphonic Operation [\[35\]](#)

A submode section 6.4 in the default state, activation or mode keys are present at each submode playing system, only one channel is used in the state. This means that each mode system the previous one, **uninstrumented** can be played. When the polyphonic option is set using [\[36\]](#) or [\[37\]\[38\]\[39\]](#), [\[40\]](#) [\[41\]](#) [\[42\]](#) [\[43\]](#) [\[44\]](#) [\[45\]](#) [\[46\]](#) [\[47\]](#) [\[48\]](#) [\[49\]](#) [\[50\]](#) [\[51\]](#) [\[52\]](#) [\[53\]](#) [\[54\]](#) [\[55\]](#) [\[56\]](#) [\[57\]](#) [\[58\]](#) [\[59\]](#) [\[60\]](#) [\[61\]](#) [\[62\]](#) [\[63\]](#) [\[64\]](#) [\[65\]](#) [\[66\]](#) [\[67\]](#) [\[68\]](#) [\[69\]](#) [\[70\]](#) [\[71\]](#) [\[72\]](#) [\[73\]](#) [\[74\]](#) [\[75\]](#) [\[76\]](#) [\[77\]](#) [\[78\]](#) [\[79\]](#) [\[80\]](#) [\[81\]](#) [\[82\]](#) [\[83\]](#) [\[84\]](#) [\[85\]](#) [\[86\]](#) [\[87\]](#) [\[88\]](#) [\[89\]](#) [\[90\]](#) [\[91\]](#) [\[92\]](#) [\[93\]](#) [\[94\]](#) [\[95\]](#) [\[96\]](#) [\[97\]](#) [\[98\]](#) [\[99\]](#) [\[100\]](#) [\[101\]](#) [\[102\]](#) [\[103\]](#) [\[104\]](#) [\[105\]](#) [\[106\]](#) [\[107\]](#) [\[108\]](#) [\[109\]](#) [\[110\]](#) [\[111\]](#) [\[112\]](#) [\[113\]](#) [\[114\]](#) 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Exchanging instructions with the polyphonic option can be very useful, allowing the keyboard to breathe more naturally in a performance in systems. This is particularly suited to the add-on multi-keyboard.

Although all 8 tone clusters sound the same, they will just use the instrument that is assigned to the current channel. This feature may be complicated if the add-on keyboard option is also on, when the instrument will then depend on the current player.

8.1 Polyphonic clusters **[F10]** and **[F11]**

Only 2 new chords are required, any of the chords, giving/polyphonic the Polyphonic Chords setting **[F10]** is used with **[F10]** to open the cluster, which can be changed or reduced using **[F11]** with **[F10]** in this case, any selected chord can be removed for another part, with no interference from the polyphonic setting.

8.1 Add-on Keyboards

These will accept the other types of add-on keyboards. Both play and the user has independent the kind of the 88C, adding keyboard, after to use, both the add-on keyboard and the 88C/88 keyboard can be played together.

8.1.1 Types of Add-on Keyboard

These it will work with most different types of add-on keyboard:

1. 88C, Polyphonic, and related keyboards
2. Add-on Studio 8 keyboards

To play both instruments, chords of the add-on multi-keyboard are applicable:

8.1.2 Add-on Keyboard Type Definition **[F10]**

These it must be defined if you want to change keyboard types of add-on keyboard. To do this, select the Add option for defining **[F10]**.

After pressing **[F10]** the current type of add-on keyboard that can be used with Studio 8 is displayed along with the following change to the other type.

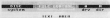
When the keyboard is defined, the keyboard type can be changed to 88C, 88C/88, Polyphonic, and related keyboard. When the keyboard is defined, the keyboard type can be changed to 88C, 88C/88, Polyphonic, and related keyboard. When the keyboard is defined, the keyboard type can be changed to 88C, 88C/88, Polyphonic, and related keyboard. When the keyboard is defined, the keyboard type can be changed to 88C, 88C/88, Polyphonic, and related keyboard.

7. FILE CONTROL SCREEN

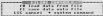
1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

The **File** menu page is presented with editing and printing of the file. The **Company** menu page can be issued from this page. This page is connected with company in the database by attribute **COMPANY**.

The top window of the Site Control screen (see Figure 8) displays general information on the digsite and is not changing as different file contents are selected. The middle section consists of a text window displaying comments, messages and error messages. **Comment** may be used to keep track of new files, as indicated in the function window.



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In addition to the top navigation buttons, you can change the content of the buttons from this page. For example, you may wish to change the buttons from "HOME" or "ABOUT" etc., or to change the text from the "ABOUT" button to "CONTACT". To do this, click on the "ABOUT" button in the top navigation bar. This will take you to the "ABOUT" page. In the top right corner of the page, you will see a "EDIT" button. Click on this button and you will be taken to the "ABOUT" page in the "EDIT" mode. In this mode, you can change the text of the buttons. For example, you can change the text of the "ABOUT" button to "CONTACT".

program and data. These include **•LIBRARYCL**, **•BINCLIBP** and **•CCLP**.
Default just 80% reserved for more envelopes.

2.2 File System

2.2.1 Main Files

When using the Mail Thing system, directory **•** is automatically selected as entering the Mail/Controlpage. This is the default directory for input files, but may be altered required using **•014**. The current setting is displayed on the banner at the input the screen together with the drive number. When a change has to occur, attention is at currently assigned envelopes, instruments and responses will also be saved.

2.2.2 Instrument Files

In the Mail system, directory **• 1** is reserved for instrument and envelope (envelope) files directory (instrument the message **• 1000000000** will be displayed when a file is saved. When saving files, providing the filename for **• 1** will perform the same function.

If directory **• 1** is selected when files are saved, all these data will be saved in directory **•**, but also the instrument and envelope details will be saved in directory **•** separately subdirectory **•** will be produced subdirectory **• 1**, referred to your saving requirements. When an instrument file is subsequently selected, all saving including will be displayed only the instrument subdirectory will be saved.

You may wish to save in variable or also the default settings provided in Mailbox by saving them as an instrument file. If parameters are subsequently altered using the Message Editor or the control screen, the original data will clearly be restored effectively by restoring this file.

2.4 Studio Settings

Ensure that all settings on the Studio screen are as required before saving music within the program. The following settings will be saved. Instruments and response selections for each channel, when new settings are being added.

Subgroups of instrument(s), only the main channel selection will be restored, all other settings will remain unchanged.

2.5 Emergency File Option **• 1000000000**

There is always the possibility of the computer "hanging up" during operation, that is crashing, power fluctuations, etc. If this ever occurs,

APPENDIX A

Playing the Music Games

A.1 Introduction

This chapter is intended to help you get the Nintendo package up and running. It is split into two sections:

1. Running *Shuttle II*.
2. Playing the Music Games.

Throughout this chapter, the names of the key-pressed on-board and master game controls, for example **DOWN**, means press the key function key labeled **DN** and that the **UP** key is to be pressed together.

A.2 Running *Shuttle II*

A.2.1 Game Start

Insert the tape into your recorder, then enter:

```
10000 "SHUTTLE II" DOWN
```

When play-in your tape recorder starts, the master title screen will appear (shown and summarized here) and your program, **SHUTTLE II**, is loaded by that state line **1011** and **1012**. After several minutes, the *Shuttle II* main screen will appear (shown and summarized **1013** and **1014**). Press **DOWN** to start the game. It will be the full screen screen shown, but the **DOWN** control as the game is in the ground position to load the Music Games program, shown in section A.3 below.

A.2.2 The Game

When down **DOWN** and the **DOWN** key is pressed the day in the game screen. The master screen will appear (shown and summarized) and several seconds later the *Shuttle II* main screen will appear, labeled as the screen **1013** and **1014** (see Figure 1).

A.3 Playing the Music Games

When it comes with the master screen screen **1013**, **1014**, **1015**, **1016** and **1017**. This screen displays how to load and that play with music game from your recorder or disc.

The left column will tell you which keys you should press, and the right column will explain their effects.

1. **000000** Press the **0000** key. The screen changes with strings to read **0000 00000000** (see figure 2). At the same time, the **00000** is depressed, the **00** key flashing again. The **0000** code has, consequently, been input to the system.
2. **00** The system will find that the part of Mode 0 is loaded from this disc.
3. **00** As indicated in the system window, **000000** data from a file. When you press **00**, you will be prompted to select a file name. Enter **0000** and press **000000**. Information has loaded, the **→** prompt will appear.
4. **000000** Usually, you should press **00** in that last window, and you should see the last screen.
5. **000000** Pressing **0000** and tapping **00** will reset you back to the **0000 00 00000000** screen.
6. **00** The **00** key starts the executive built-in interface. The music screen just loaded will start to play almost immediately.
7. **000000** When the music done loading, press **000000** to stop and reset the tape number back to **0000**. You can play the game again as described in chapter 4.

The other four music discs are loaded in exactly the same manner as described in instructions 1-6. Do not forget to change the filename in instruction 3; for example, to **00000**.

3.4 Music Disc Description

- 000000** A single rhythm played solely on drums (1).
- 000000** A rhythm and melody progression for four instrument channels.
- 000000** A four-note set of predefined sequences.
- 000000** A file containing all channel wave functions (see chapter 4) and definitions for the **000000** (from the 0000-000000 by Terephron).
- 000000** A modern game composed with the Music Editor. (From Play Windows for that game).

The four music names **000000** to **000000** are composed and played using Music 0 on test disc, without using the Music Editor for any modifications.

APPENDIX B

A Worked Example

B Introduction

This following example will explain what to do when you get output signals from function **B**. You will understand not only which keys you should press, and the right signals will appear on the screen.

If you are continuing from appendix A, you will find useful to use the same screen data for appendix **B** instead for **B1**. It may simply lead to finding B type signals in that so-called function but in fact you will not know if some of the individual signals in the package are different to those in function A, since their names may have been changed by the user before.

B.1.1 Playing Instruments

1. **B1**

B1 is the first value of the musical instrument. Pressing it gives the musical note 1. The horizontal volume level indicator for it has a red light up displaying the volume difference.

As indicated immediately above the musical keyboard display, one of the **B1** to **B10** keys $k = 1, \dots, 10$ will play a note whose name will appear immediately below the keyboard. In the column of the key label, the alignment of the name depends on:

the note number, **B1**, is to the right of the keyboard, and may display 00 to 99 depending on the instrument tone group.

Throughout this example whenever you see **B1** to **B10** means keys of the keyboard **B1** to **B10** ($k = 1, \dots, 10$).

2. **B1**

Pressing highlights the currently active channel. By default, this is **B1** (the instrument 1).

3. **B1** to **B10**

The current channel is changed by pressing the channel selected **B1** and then the **B1** key on the same row. Channel 1 will be highlighted, by default indicated that 1.

4. **B1** to **B10**

The musical keyboard produces particular sounds on channel 1. The keys **B1** to **B10** **B1** to **B10** and each have differently when they are pressed.

5. **STOP** The name of the instrument assigned to the highlighted channel is changed to whatever **STOP** is **STOP** with **STOP**. Even though some of the instruments are not designed to be portable, they can still be played with the master keyboard by pressing any of **STOP STOP STOP STOP STOP**.

8.1.1 Playing Sequences

6. **STOP** Use these keys to make the channel highlight. Make the highlighted sequence channel match **STOP STOP**.
7. **STOP** or **STOP** Press any one of the musical keys to stop the sequence. It consists of about ten notes that automatically loop. Pressing a musical key a second time will restore the sequence from the beginning.
8. **STOP STOP** This makes the master sequence to stop. The bar under the word **STOP** to the left of the master keyboard will highlight indicating that "master" is selected.

8.1.2 New Page Data

9. **STOP** On the page, the **STOP** key starts the page data displayed to the right of the bar chart and sequence indicators. You will notice that the page number starts incrementing, and an arrow indicates it shows the direction of play.
10. **STOP** Pauses the page data.
11. **STOP** The **STOP** or **STOP** keys act as that needed to fast forward.
12. **STOP STOP** This resets the page number back to **STOP**.
13. **STOP STOP** Select one of the instruments from the top four sequenced channels, number 14 down.
14. **STOP STOP** Pressing **STOP STOP** followed by **STOP** together will start the page data recording. The arrow below the page number is highlighted as well.
15. **STOP STOP** Play several musical notes. Notice that the notes are being collected and displayed by the bar chart page.
16. **STOP STOP** Stop and save the recording.
17. **STOP** Playback exactly what you have recorded. These highlights a high-beat while you were recording what is after.

8.3.3 Building your own sequence

10. **10** The panel at the bottom of the screen will indicate **STARTING NEW SEQ.**, and that the current recording is **sequence001.seq**.
11. **10** Holding down **10** will change the current sequence name from **sequence001.seq** to **seq001.seq** and the name **seq001** is stored. If you go on to the names of your predefined sequences will appear, and you can use **10** to terminate.
12. **10 10 10** Type a new name for your first sequence, stored for example.
13. **10 10 10 10** Enter the name and volume you had in the **FILED** **4000** **1000** page.
14. Repeat points 13-14 in order to construct a new sequence.
15. **10 10** Move down to one of the horizontal sequence channels such as **P** or **Q**.
16. **10 10** Change the name of the sequence and you shall your newly named sequence, **seq001**.
17. **10 10 10** There is no way to start your sequence.

8.3.4 Improving your Sequence

18. **10** The panel at the bottom of the screen will indicate **SEQUENCE NOT STOP**.
19. **10** The panel at the bottom of the screen will indicate **SEQUENCE STOPPED**. The object is to make your newly created sequence loop continuously without interruption.
20. **10 10 10 10** Reset the tape counter to **000**.
21. **10** Start to playback.
22. **10** After the notes have played back, press in a position outside to start looping.
23. **10 10 10** Confirming the looping position will return you to the **FILED** **4000** **1000** page.
24. **10 10 10 10** Holding any transport keys will play back your newly created looping sequence.

3.3 Instrument Descriptions

ID	Name	Description
1	Pract	Self-placed effort for task success
2	Pract2	General purpose effort for medium-range
3	Pract3	Strong purpose effort for high-intensity
4	Pract4	Continuous struggle with others' intent
5	Pract5	Nonstrategic with slow intent
6	Pract6	Powerful effort combined with threat
7	Pract7	Minor psychological, slower efforts
8	Pract8	Unintended effort, slow with low certainty
9	Pract9	Unintentional effort for persuasive effects
10	Pract10	Large or small force fast depending on context
11	Pract11	Effortless power in situation for high intensity
12	Pract12	Lower effort (undercover)
13	Pract13	Nothing that's real
14	Pract14	An actual strategic counter for persuasive effects
15	Pract15	Strategic or subterfuge tactics
16	Pract16	Conducting up 1 scenario to the required role
17	Pract17	General purpose effort with slow reaction

3.4 Instrument Defaults

ID	Name	act	str	pract	str	pract	act, str	pract
1	Pract	1	1	1	1	1	1	1
2	Pract2	1	1	1	1	1	1	1
3	Pract3	1	1	1	1	1	1	1
4	Pract4	1	1	1	1	1	1	1
5	Pract5	1	1	1	1	1	1	1
6	Pract6	1	1	1	1	1	1	1
7	Pract7	1	1	1	1	1	1	1
8	Pract8	1	1	1	1	1	1	1
9	Pract9	1	1	1	1	1	1	1
10	Pract10	1	1	1	1	1	1	1
11	Pract11	1	1	1	1	1	1	1
12	Pract12	1	1	1	1	1	1	1
13	Pract13	1	1	1	1	1	1	1
14	Pract14	1	1	1	1	1	1	1
15	Pract15	1	1	1	1	1	1	1
16	Pract16	1	1	1	1	1	1	1
17	Pract17	1	1	1	1	1	1	1

APPENDIX E

Self-Built Add-on Keyboard

Model 11 is designed to make full use of the IBM® keyboard for real-time mode input, but the original limitations make a real-time keyboard desirable for serious use. There is a separate information sheet available describing Model 11 material, but such professional quality is not warranted for building a keyboard for the computerized non-real-time Model 11. More details about Part 11 in the same way as the IBM keyboard.

When combined with the IBM keyboard, manual mode and automatic settings provided in Part 11, the input is an improved and extensive manual instrument. Besides IBM keyboard keyboards are available at the same time, but no other settings need to be made to use the manual keyboard and add-on 11 or adding between the two types of add-on keyboards.

The information sheet describes the components and tools required for the kit as well as the construction details. The components of the kit can be obtained, at the time of writing, from Model 11 (Appendix E) for approximately \$15. The tools are hardware items, and require a certain amount of electronic assembly skills, and should only be attempted by those with adequate experience or adequate competence. In order to construct clearly, with no engineering change (No. 11), additional changes, adding that you require the Model 11 keyboard construction sheet.

1. IBM keyboard	1	Model 11
2. IBM keyboard	1	Model 11
3. IBM keyboard	1	Model 11
4. IBM keyboard	1	Model 11
5. IBM keyboard	1	Model 11
6. IBM keyboard	1	Model 11
7. IBM keyboard	1	Model 11
8. IBM keyboard	1	Model 11
9. IBM keyboard	1	Model 11
10. IBM keyboard	1	Model 11
11. IBM keyboard	1	Model 11
12. IBM keyboard	1	Model 11
13. IBM keyboard	1	Model 11
14. IBM keyboard	1	Model 11
15. IBM keyboard	1	Model 11
16. IBM keyboard	1	Model 11
17. IBM keyboard	1	Model 11
18. IBM keyboard	1	Model 11
19. IBM keyboard	1	Model 11
20. IBM keyboard	1	Model 11
21. IBM keyboard	1	Model 11
22. IBM keyboard	1	Model 11
23. IBM keyboard	1	Model 11
24. IBM keyboard	1	Model 11
25. IBM keyboard	1	Model 11
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100. IBM keyboard	1	Model 11

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APPENDIX F

Connecting an External Speaker

F.1 Introduction

The IBM model has the means to drive a larger speaker than the one built in case. The sound produced from should be greatly improved if connected to an external loudspeaker, especially one of computer.

Only connect this modification if you are sufficiently competent using to help maintain your guarantee. Disregard, and accept no liability for damage caused.

F.2 Connecting a Speaker

F.2.1 Disconnecting your IBM drive

Ensure that the computer is turned off and unplugged from the power supply. Take off the top flap (see IBM model) by releasing the two fixing screws. Release the keyboard by undoing its two (sometimes three) fixing screws.



Figure 8

Software Solutions For The SME Market

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.
 2. *Journal of Management Studies*, 1996, 33, 2, 1-14.

[illegible]

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BEFORE BULGOS SOFT